APPROVED O.G. FIG.

BY

CLASS	SUBCLASS
DRAFTSMAN	WO 99/16880

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FIG. 1

ABA

G-protein

PLC

IP_3

Ca^{2+}

PP2B

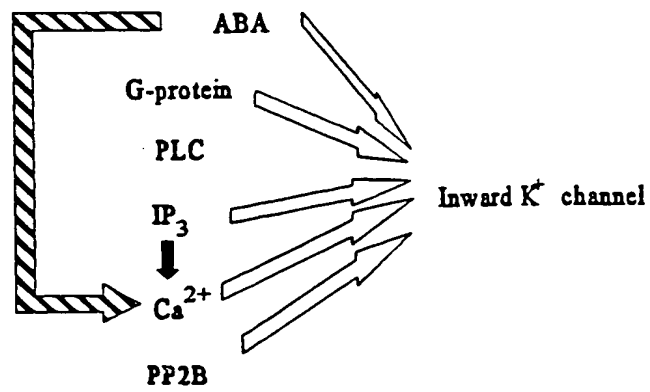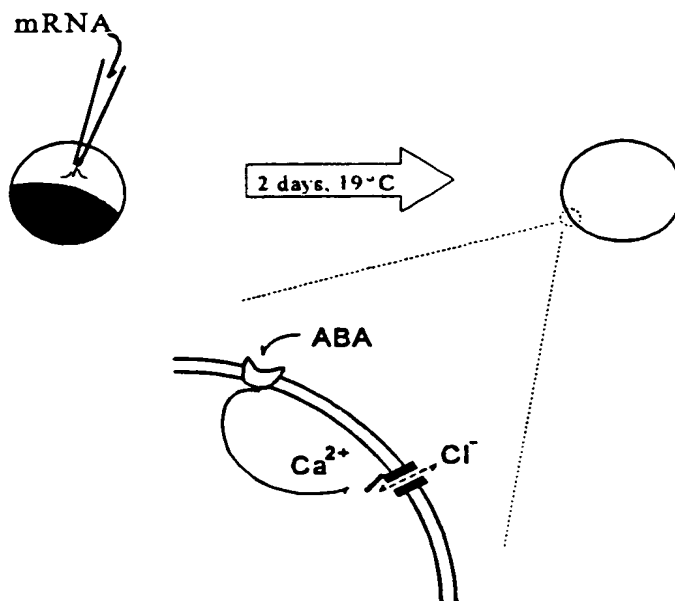Inward K^+ channel

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A.

2 days, 19°C

mRNA

ABA

Ca²⁺ Cl⁻

B.

Sucrose gradient fractionation

cDNA library construction

Pool and subdivide

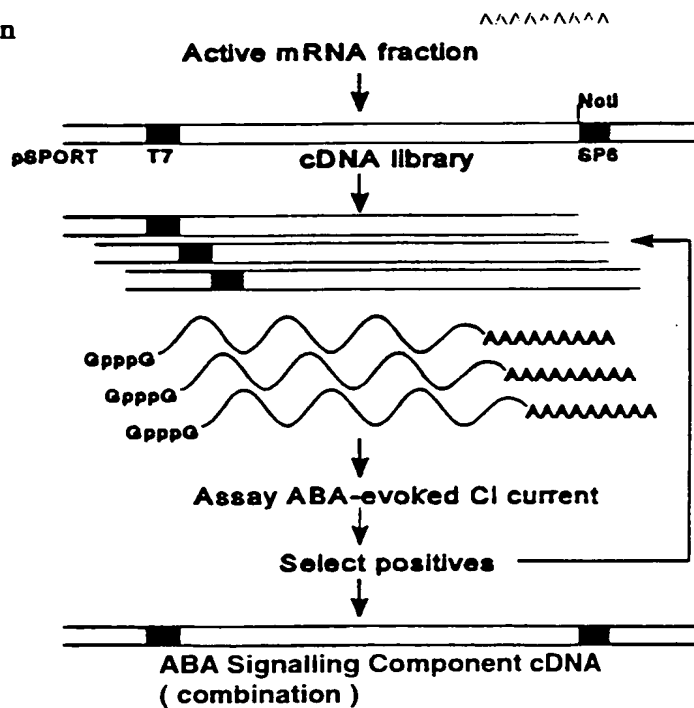Transcribe pools seperatly with T7 polymerase

Assay and select positives

Active mRNA fraction

NotI

pSPORT T7   cDNA library   SP6

GpppG   AAAAAAAAA
GpppG   AAAAAAAAA
GpppG   AAAAAAAAA

Assay ABA-evoked Cl current

Select positives

ABA Signalling Component cDNA
(combination)

FIG. 2

A.

```
  1   S N P E E K E F L D W S K R V I I I E G I G R G L L Y L H R D    REK-Nt (5' end)
620   N K - Q R S S L L N W Q T R F N I I C G I A R G L L Y L H Q D    IRK1-It
621   - - - - - - - - L N W K D R F A I T N G V A R G L L Y L H Q D    SRK9-Bc
616   K K - - R S S N L N W K D R F A I I N G V A R G L L Y L H Q D    SRK4-Bo

 32   S R L R I I H R D L K A S N I L L D E Q L N P K I S D F G M A    REK-Nt (5' end)
650   S R F R I I H R D L K A S N I L L D K E M N P K I S D F G M A    IRK1-It
644   S R F R I I H R D L K P G N I L L D K Y M I P K I S D F G M A    SRK9-Bc
645   S R F R I I H R D M K P S N I L L D K Y M I P K I S D F G M A    SRK4-Bo

 63   R I F P G S Q D Q A N T E R V V G T                              REK-Nt (5' end)
681   R I F G G D E T D A N N T K R V                                  IRK1-It
675   R I F A R D E I Q A R T D N A V G T                              SRK9-Bc
676   R I F A R D E T E A N T                                          SRK4-Bo
```

B.

```
  1   G L L C V Q E Y A E D R P N V S V V L S M L T S E I S D L P S    REK-Nt (3' end)
784   G L L C V Q E Q A E D R P N M A T V V L M L G S E S A T L P Q    IRK1-It
784   G L L C I Q E R A E H R P T M S S V V W M L G S E A T E I P Q    SRK9-Bc
785   G L L C I Q E R A E D R P T M S S V V W M L G S E A T D I P Q    SRK4-Bo

 32   P K Q P A F T T R P S C S E K E S S K T Q G - - - - - - S V    REK-Nt (3' end)
815   P K H P G F C L G S R P A D M D S S T S - M C D E S C - - T V    IRK1-It
815   P K P P V Y C L I A S Y Y A N N P S S S R Q F D D D E S W T V    SRK9-Bc
816   P K P P I Y C L I T S Y Y A N N P S S S R Q F E D D E S W T V    SRK4-Bo

 56   N T V S I I I M E G R                                            REK-Nt (3' end)
843   N Q V T V T M L D G R                                            IRK1-It
846   D K Y T W S V I D A R                                            SRK9-Bc
847   N K Y T C S V I D A R                                            SRK4-Bo
```
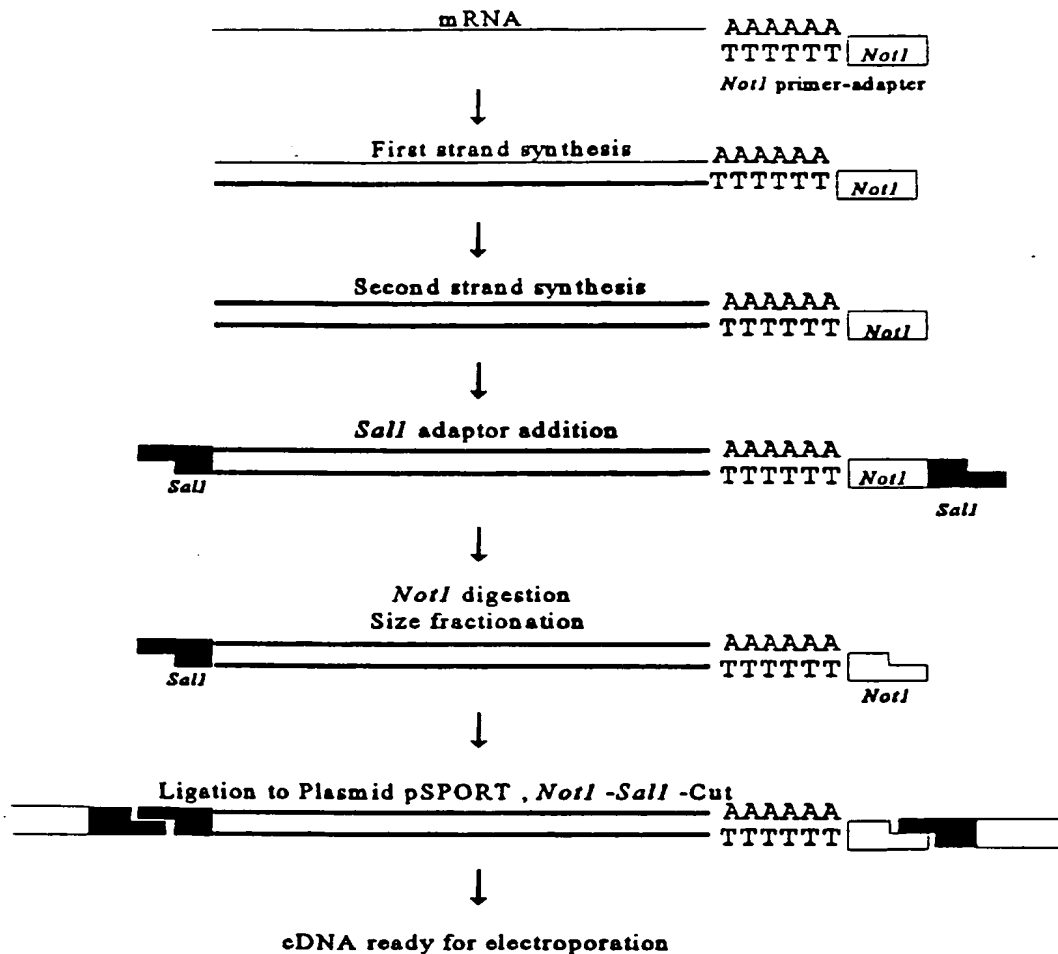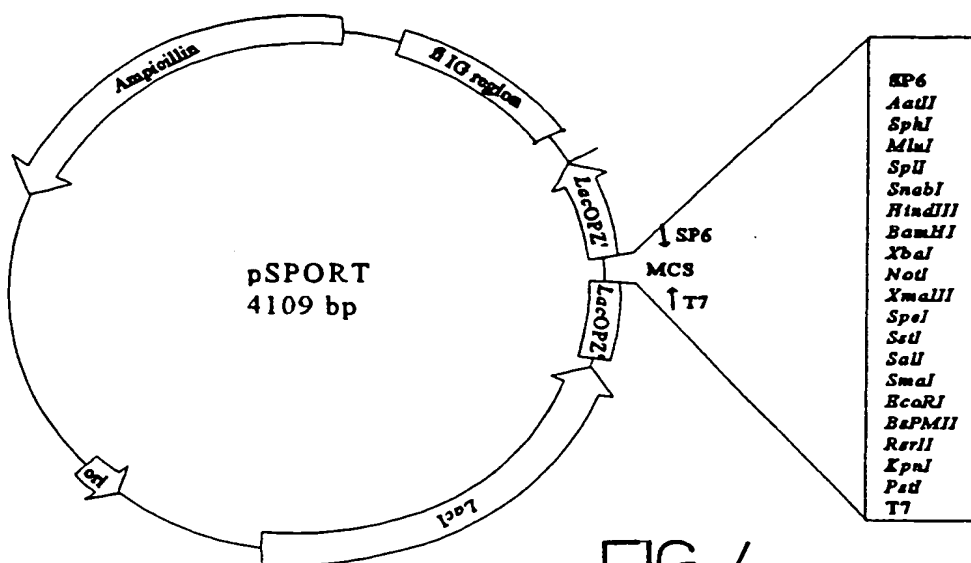
FIG. 3

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A.

mRNA
AAAAAA
TTTTTT *NotI*

NotI primer-adapter

↓

First strand synthesis
AAAAAA
TTTTTT *NotI*

↓

Second strand synthesis
AAAAAA
TTTTTT *NotI*

↓

SalI adaptor addition
SalI
AAAAAA
TTTTTT *NotI*
SalI

↓

NotI digestion
Size fractionation
SalI
AAAAAA
TTTTTT
NotI

↓

Ligation to Plasmid pSPORT , *NotI* -*SalI* -Cut
AAAAAA
TTTTTT

↓

cDNA ready for electroporation

B.

pSPORT
4109 bp

Ampicillin
f1G region
LacOPZ'
LacOPZ'
ori
lacZ

SP6
MCS
T7

SP6
AatII
SphI
MluI
SplI
SnabI
HindIII
BamHI
XbaI
NotI
XmaIII
SpeI
SstI
SalI
SmaI
EcoRI
BsPMII
RsrII
KpnI
PstI
T7

FIG. 4

SUBSTITUTE SHEET (RULE 26)

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```
11    L I F S L E T F L L V L L F F T L V S S S A S E I F F E E S F D D G    CAL-tN (5'end)
6     N K L S F F C F F F L V S V L T L A P L A F S E I F L E E H F E G G    CRT1-At

45    W R S R W V K S D W K I S E G K A G S F K H T A G T W A G D P D D K    CAL-tN (5'end)
40    W K S R W V L S D W K R N E G K A G T F K H T A G K W P G D P D N K    CRT1-At

79    G I H T T N D A K H F A V S A K I P E F S N K N R T L V V Q Y S I K    CAL-tN (5'end)
74    G I Q T Y N D A K H Y A I S A K I P E F S N K N R T L V V Q Y S V K    CRT1-At

113   F E F D I E C G R G Y I K L L S G Y V H P K K F G G D T P Y S F M F    CAL-tN (5'end)
108   I E Q D I E C G G A Y I K L L S G Y V N Q K Q F G G D T P Y S L M F    CRT1-At

147   G A D I C G S Q T K K P S C L Y F F Y F G A E L P P L P E R N L       CAL-tN (5'end)
142   G P D I C G T Q T K K L H - V I V S Y Q G Q N Y P I - - K K D L       CRT1-At
```

A

```
1     G V W M - - E P D Y A K T S D S R K C L P I G E A E K E A F E E A E    CAL-Nt (3'end)
340   - I L I C D D P A Y A R S I V D D Y F A Q H R E S E K E L F A E A E    CRT1-At

33    K V R K A K E E E A Q R A R E E G E R R K R E R G R - - D R R R D      CAL-Nt (3'end)
373   K E R K A R E D E E A R I A R E E G E R R R K E R D H R Y G D R R R    CRT1-At

65    R Y K K R I H H D Y M D D Y H D E L                                   CAL-Nt (3'end)
407   R Y K R P N P R D Y M D D Y H D E L                                   CRT1-At
```

B

FIG. 7

Vesicle

VAMP   Synaptotagmin   V-SNARE

NSF   SNAPs

syntaxin   SNAP-25

Plasma membrane

Ca²⁺
Channel

FIG. 8

```
CCAAATCCCATCTCAAAATGAATGATCTATTTTCAGGATCTTTCTCTCGTTTCAGAGCTG        60
              M  N  D  L  F  S  G  S  F  S  R  F  R  A
ACGATCAATCGGACTCTCACGCCATAGAAATGGGAGACATTACTGGCGGAGTCAATCTCG       120
 D  D  Q  S  D  S  H  A  I  E  M  G  D  I  T  G  G  V  N  L
ACAAATTCTTCGAAGATGTTGAAGCCATTAAAGACGAACTCAAAGGCCTCGAGAAAATCT       180
 D  K  F  F  E  D  V  E  A  I  K  D  E  L  K  G  L  E  K  I
ATTCCCAACTCCAATCTTCCCATGAAAAAAGCAAGACTCTTCACAACGCTAAAGCCGTTA       240
 Y  S  Q  L  Q  S  S  H  E  K  S  K  T  L  H  N  A  K  A  V
AAGATCTAAGATCCAACATGGATAATGACGTTTCCATGGCATTGAAGAAAGCCAAATTCA       300
 K  D  L  R  S  N  M  D  N  D  V  S  M  A  L  K  K  A  K  F
TCAAAGTTCGTCTCGAAGCCTTAGACAGATCAAATGCAGCGAATCGAAGCCTCCCTGGAT       360
 I  K  V  R  L  E  A  L  D  R  S  N  A  A  N  R  S  L  P  G
GTGGACCCGGAAGTTCATCTGACAGGACGAGAACTTCAGTTGTGAACGGATTAAGGAAGA       420
 C  G  P  G  S  S  D  R  T  R  T  S  V  V  N  G  L  R  K
AACTTCAAGAGTCAATGAATCAGTTCAACGAGCTAAGGCAAAGATGGCATCTGAATATA       480
 K  L  Q  E  S  M  N  Q  F  N  E  L  R  Q  K  M  A  S  E  Y
GGGAAACAGTTCAACGACGATATTATACCGTCACAGGAGAAAATCCTGATGAAGCAGTTC       540
 R  E  T  V  Q  R  R  Y  Y  T  V  T  G  E  N  P  D  E  A  V
TTGATACACTCATATCTACAGGTCAAAGTGAGACGTTCTTGCAAAAGGCAATTCAAGAGC       600
 L  D  T  L  I  S  T  G  Q  S  E  T  F  L  Q  K  A  I  Q  E
AAGGGAGAGGACAAGTGATGGATACAGTTATGGAAATTCAAGAAAGGCATGAAGCTGTGA       660
 Q  G  R  G  Q  V  M  D  T  V  M  E  I  Q  E  R  H  E  A  V
AGGAATTGGAGAGGAATTTGAAAGAATTGCATCAAGTATTCTTGGACATGGCTGTTTTGG       720
 K  E  L  E  R  N  L  K  E  L  H  Q  V  F  L  D  M  A  V  L
TTGAAAGTCAAGGAGCTCAACTTGATGATATTGAGAGCCAAGTGAATAGGGCTAATTCCT       780
 V  E  S  Q  G  A  Q  L  D  D  I  E  S  Q  V  N  R  A  N  S
TCGTTAGAGGGGGTGCTCAGCAACTGCAAGTGGCAAGGAAGCACCAGAAGAACACTAGAA       840
 F  V  R  G  G  A  Q  Q  L  Q  V  A  R  K  H  Q  K  N  T  R
AATGGACTTGTTTTGCTATTATTCTTCTGCTTATCATCATTTTGGTGGTGGTTCTTTCTA       900
 K  W  T  C  F  A  I  I  L  L  L  I  I  I  L  V  V  V  L  S
TTCAGCCATGGAAAAAATGAGAATTTGTCTATGGTCAAAGGTCTTCTGGTGGACCCCTTC       960
 I  Q  P  W  K  K  .
AATGTTTTGAATATTCTAAATTTTTATATTTTATTATTTTAGCCATGCTTATTATTTTGT      1020
GTTATTTTGGATTTTTTTTTTGTTTTTAATGTGGGGAAGAGTAAACTGGATGGGGGTCCA      1080
TGTGCTATTTAGAGAAATACTTGGGAGTTCTCTTTTTGTAATTATTGCTGTATTTAGAGT      1140
ATAATTCTTTTTCTATATTGTTGGCAGGTTAATTTGTTTGTTTGATTATATTCTCATTTA      1200
GATTT                                                            1205
```

A

B

```
  1  MNDLFSGSFSRFRADDQSDSHAIEMG--------------DITGSV      SYNTAXIN.PRO
  1  MNDLMTKSFMSYVDLKKAAMKDMEAGPDFDLEMASTKADHMDEND      KNOLLE.PRO
  1  M-------------------------------------------      SYNAHUM.PRO
  1  M-K----DRTQVLRTRRNSDDKEEVVHVD---------RIH          SYNBHUM.PRO
  1  MTK---DRLAALHAAQSDDEEETEVAVNVD----------GHDS      SYNADRO.PRO

 33  NLDKFFEDEAIKDELKGLEHIYSLLSSHEKSKTLHNKAVRDL        SYNTAXIN.PRO
 46  DLSSFLEEAEYVKAEMLISETLARIEQYHEESKGVHKAESVHSL      KNOLLE.PRO
  2  --DEFFEQVEEIR---GFIDRIAENVEEVKRKHSAILASPNPDEK     SYNAHUM.PRO
 28  FMDEFFEQEEEIR---CIEHLSEDVEQVKKQHSAILAAPNPDER      SYNBHUM.PRO
 32  YMDDFFAQEEEIR---BMIDKVQDHVEEVKKKHSAILSAPTDEH      SYNADRO.PRO

 76  RSHMDNEVSMALRKAK--FIRVRLEALDRSHAANRSLPGGDFGSS     SYNTAXIN.PRO
 91  RNKISNEIVSGLRKDDAKSIKSKLEEMKANKEIKRL----SGTP     KNOLLE.PRO
 42  TKVELEELMSDIKKTANK-VRSKLKSIEQSIEQEEGL---DRSSA    SYNAHUM.PRO
 70  TKQELEELTADIKKTANK-VRSKLKAIEQSIEQEEGS---TAPRP   SYNBHUM.PRO
 74  TKQELEDLMADIKKNANR-VRGKLKGIEQNIEQEEQQ---NKSSA   SYNADRO.PRO

121  SDRTKTSYVNGLRKILQESNYFHELRQKM--ASEIKETVQRKY-     SYNTAXIN.PRO
132  VYRSRTAVTNGLRKKLKEVMMEFQGLRQKMSEDQYKETVERRY-    KNOLLE.PRO
 93  DLRIRKTQHSTLSRKFVEVMSEYHA------TQSVYKERCKGRIQ   SYNAHUM.PRO
111  ILRIRKTQHSTLSRKFVEVMTEYHA------TQSKYRDRCKDRIQ   SYNBHUM.PRO
115  DLRIRKTQHSTLSRKFVEVMTEYHR------TQTDYRERCKGRIQ   SYNADRO.PRO

163  --YTVTGENPDEAVLITLISTQS-ETLQKAQEQGRGQVMDTV      SYNTAXIN.PRO
176  --FTVTGEHANDEMISKIITDNAGGEEFLTRAIQEHGKGVLETV    KNOLLE.PRO
122  RQLEITGRTTTSEELEDMLESNPA-IFASGIMDSSISK--QAL    SYNAHUM.PRO
150  RQLEITGRTTTNEELEDMLESGKLP-IFTDDIKMDSQMTH--QAL  SYNBHUM.PRO
154  RQLEITGRPTNDDELEKMLEEGNSS-VETCGIMETQQAK--QTL   SYNADRO.PRO

205  MEIQERHE--AVKELERHLKELHQVFLDMAVLVESGQAQLDIES   SYNTAXIN.PRO
219  VEIQRDEYDAAKEIEKSLLELHQVFLDMAVHVESQGEQMDEIEH   KNOLLE.PRO
164  SEIETRH--SEIIKLENSIRELHDMFMDMAMLVESQGEMIDRIEY  SYNAHUM.PRO
192  NEIETRH--NEIIKLETSIRELHDMFMDMAMLVESQGEMIDRIEY  SYNBHUM.PRO
196  AQIEARH--QDIMKLTSIKELHDMFMDMAMLVESQGEMIDRIEY   SYNADRO.PRO

248  QVNRANSFVRGGAQQLQVA--RLHKKMTRKWTCFAIILLLIITEV   SYNTAXIN.PRO
264  HVINASHYVADGANELLTASOOHRNSRKWMCGIIVLLLILILI    KNOLLE.PRO
207  NVEHAVDYVERAVSDTI--FAVRYSKARRKK-IMIIICCVILGI    SYNAHUM.PRO
235  NVEHSVDYVERAVSDTI--FAVKYSKARRKK-IIIICCVVLGV    SYNBHUM.PRO
239  HVEHAMDYVQTATQDTI--KALKYSKARRKK-IMILICLTVLGI   SYNADRO.PRO

291  VVLSIQPW--KK     SYNTAXIN.PRO
309  VVIPIITSFSSS     KNOLLE.PRO
249  VIASTVGGIFA      SYNAHUM.PRO
277  VLASSIIGCTLGL    SYNBHUM.PRO
281  LAASYVSSYF-M     SYNADRO.PRO
```

FIG.10

FIG 11

syntaxinAhum
syntaxin1Arat
syntaxin1Brat
syntaxin1Bhum
syntaxin1Adro
epimorfin hum
syntaxin2rat
syntaxin3rat
syntaxin4rat
syntaxin3hum
SYR-Nt
KNOLLE-At
SSO2-Sc
SSO1-Sc
PEP12-Sc
PEP12-At

FIG. 12

A.

B.

FIG. 13

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$V_{command}$

I_m

V_m

FIG. 14

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A

90mM Cl⁻   30mM Cl⁻   90mM Cl⁻

B   90 mM Cl⁻ and 1mM Ca²⁺

C

1 mM Ca²⁺   10 mM Ca²⁺ (5min)   10 mM Ca²⁺ (10 min)

FIG.15

FIG 5

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FIG. 6

```
17   R F R A V T S A Y Y R S A V G A L L V Y D I S R K T T F E N I    smG-Nt2
74   R F R A V T S A Y Y R G A V G A L I V Y D I S R R T T F D S V    Soybean
74   R F R A V T S A Y Y R G A V G A L I V Y D I T R R T T F D S V    L.Japonicus
74   R F R A V T S A Y Y R G A V G A L V V Y D I T R R T T F E S V    A. thaliana1
73   R F R A V T S A Y Y R G A V G A L V V Y D I T R S S T F E N V    A. thaliana2
65   R F R A V T S A Y Y R G A F G A L V V Y D I T R R T T F D S I    N.tabacum2

48   Q C W L D E L H T H C D T T V A R M L V G N K C D L E N I R D    smG-Nt2
105  G R W L D E L K T H C D T T V A M M L V G N K C D L E N I R A    Soybean
105  S R W L D E L K T H C D T T V A M M L V G N K C D L E N I R A    L.Japonicus
105  G R W L D E L K I H S D T T V A R M L V G N K C D L E N I R A    A. thaliana1
104  G R W L D E L N T H S D T T V A K M L I G N K C D L E S I R A    A. thaliana2
96   P R W L D E L K T H S D T T V A R M L V G N K C D L D N I R A    N.tabacum2

79   V S I Y E G K N L A E E E G L F F I E T S A L D S T N V K Q P    smG-Nt2
136  V S I D E G K S L A E A E G L F F M E T S A L D S T N V K M A    Soybean
136  V S I E E G K S L A E A Q G L F F M E T S A L D S T N V R T A    L.Japonicus
136  V S V E E G K A L A E E E G L F F V E T S A L D S T N V K T A    A. thaliana1
135  V S V E E G K S L A E S E G L F F M E T S A L D S T N V K T A    A. thaliana2
127  V S V E E G K S L A E S E G M F F M E T S A L D A T N V N K A    N.tabacum2

110  L K L S S A Q I Y Q N L S R K V L H S D S Y K T E L S V H P V    smG-Nt2
167  F E M V I R E I Y N N V S R K V L N S E T Y K A E L S V N R V    Soybean
167  F E M V I R E I Y N N V S R K V L N S D T Y K A E L S V D R V    L.Japonicus
167  F E M V I L D I Y N N V S R K Q L N S D T Y K D E L T V N R V    A. thaliana1
166  F E M V I R E I Y S N I S R K Q L N S D S Y K E E L T V N R V    A. thaliana2
158  F D M V I R E I Y N S V S R K V L N S D S Y K A E L S V N R V    N.tabacum2
```

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PCT/GB98/02937

A   −ABA   +ABA (20 s)   +ABA (5 min)
            ●━━   ■━━   △━━

B   C

I / μA
3
2
1

V / m V

−200 −160 −120 −80 −40   40   80

−1

FIG.16

FIG. 17

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FIG. 18

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FIG. 19

Pool size	- ABA	+ ABA
20000		
2000		
200		
20		

FIG. 20

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FIG. 21

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35min

28min

after impalement

22min

16min

10min

5min

FIG. 22

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A

2.5 mM K⁺ $\quad\quad\quad$ 25 mM K⁺

B

$I\ (\mu A)$

1

-150 $\quad$ -100 $\quad$ -50 $\quad\quad$ 50 $\ V\ (mV)$

-1

FIG.23

2.5 mM K$^+$

25 mM K$^+$

FIG.24

control

TEA

Ba^{2+}

Niflumic Acid

FIG.25

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FIG. 26

FIG. 27

A. LQVARK   SYR-Nt
    TKKALK   syntaxin 1A-DRO
    TKKAVK   syntaxin 1A-RAT, syntaxin 1A-HUM
    TDKAVK   SSO1-yeast
    TNKAVK   SSO2-yeast

B.

X1

X2

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PCT/GB98/02937

A.

Contr -ABA

Contr +ABA

B.

BotC -ABA

BotC +ABA

C.

BotD -ABA

BotD +ABA

FIG. 28

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PCT/GB98/02937

A.

Contr inst

Contr St-St

V(mV)

I(μA/cm^2)

B.

BotC Inst

BotC St-St

V(mV)

I(μA/cm^2)

C.

BotD Inst

BotD St-St

V(mV)

I(μA/cm^2)

• -ABA
▾ +ABA

FIG. 29

FIG. 30

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PCT/GB98/02937

A.

Contr -ABA

Contr +ABA

B.

BotC -ABA

BotC +ABA

C.

BotD -ABA

BotD +ABA

FIG.31

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A.　Contr St-St K_{in}

V(mV)

I(μA/cm^2)

● −ABA
▼ +ABA

B.　BotC St-St K_{in}

V(mV)

I(μA/cm^2)

C.　BotD St-St K_{in}

V(mV)

I(μA/cm^2)

FIG. 32

FIG. 33

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FIG. 34

FIG. 35

A.

| 1 | 2 | 3 | 4 | kD |

— 30

B.

| 1 | 2 | 3 | 4 |

A.

B.

FIG. 36

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FIG. 37

APPROVED
BY
DRAFTSMAN

O.G. FIG.

CLASS | SUBCLASS

A.

B.

C.

<u>1</u>   <u>2</u>   <u>3</u>   <u>4</u>   kD

——— — 34

FIG. 38

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FIG. 39

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```
TTTAGATTTACTCTTATATTAGTTTGTTTGTTTAATTGGACGGTTGTTATATCTTTTTCTTA
ATATGAGATTTATGTCGTTATTAATGTTTTTCTCTTGAGGGTTCATAAAGAGATTTATCGTG
TACCTGGGGGTAGGTCAAATGAGAAGGGGTGTAATTTTTGTTTTTTTTTTAGGTTTTATTGT
GTTTTATTATTCGTACCGATTTTATTATTTTATATTTTTAAATCTTATAAGTTTTGTAACTT
CCCCAGGTGGTCTTCTGGAAACTGGTATCTGTTTAAGAGTAAAAAAGGTACCGACTTATCTT
TCTTGGTGGTGGTTTTACTACTATTCGTCTTCTTATTATCGTTTTGTTCAGGTAAAAGATCA
CAAGAAGACCACGAAGGAACGGTGAACGTCAACGACTCGTGGGGGAGATTGCTTCCTTAATC
GGGATAAGTGAACCGAGAGTTATAGTAGTTCAACTCGAGGAACTGAAAGTTGGTTTTGTCGG
TACAGGTTCTTATGAACTACGTTAAGAAAGTTTAAGGAGAGGTTAAGGAAGTGTCGAAGTAC
GGAAAGAACTTAAAGGTATTGACATAGGTAGTGAACAGGAGAGGGAACGAGAACTTAACGGA
AAACGTTCTTGCAGAGTGAAACTGGACATCTATACTCACATAGTTCTTGACGAAGTAGTCCT
AAAAGAGGACACTGCCATATTATAGCAGCAACTTGACAAAGGGATATAAGTCTACGGTAGAA
AACGGAATCGAGCAACTTGACTAAGTAACTGAGAACTTCAAAGAAGGAATTAGGCAAGTGTT
GACTTCAAGAGCAGGACAGTCTACTTGAAGGCCCAGGTGTAGGTCCCTCCGAAGCTAAGCGA
CGTAAACTAGACAGATTCCGAAGCTCTGCTTGAAACTACTTAAACCGAAAGAAGTTACGGTA
CCTTTGCAGTAATAGGTACAACCTAGAATCTAGAAATTGCCGAAATCGCAACACTTCTCAGA
ACGAAAAAGTACCCTTCTAACCTCAACCCTTATCTAAAAGAGCTCCGGAAACTCAAGCAGA
AATTACCGAAGTTGTAGAAGCTTCTTAAACAGCTCTAACTGAGGCGGTCATTACAGAGGGTA
AAGATACCGCACTCTCAGGCTAACTAGCAGTCGAGACTTTGCTCTCTTTCTAGGACTTTTAT
CTAGTAAGTAAAACTCTACCCTAAACC
```
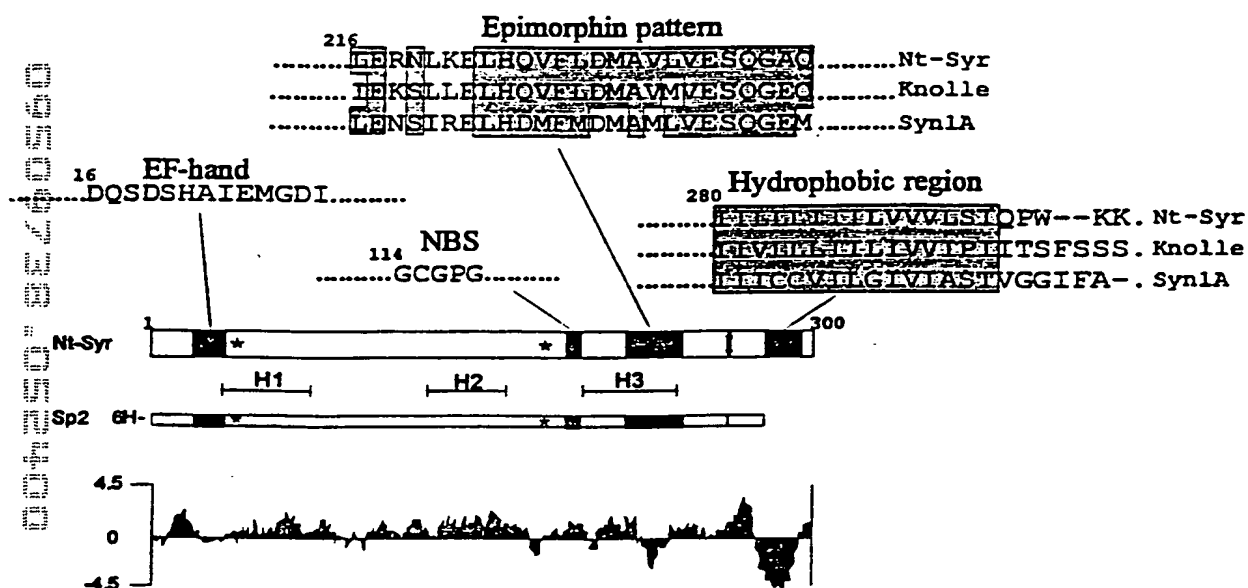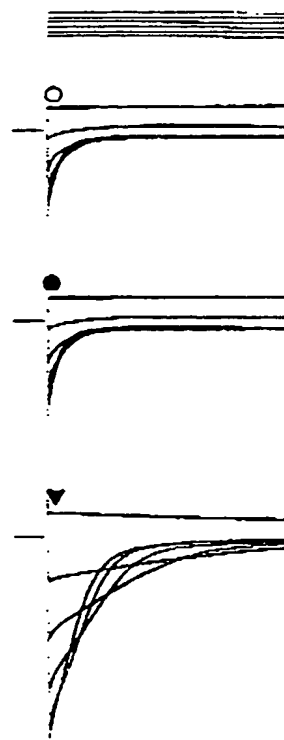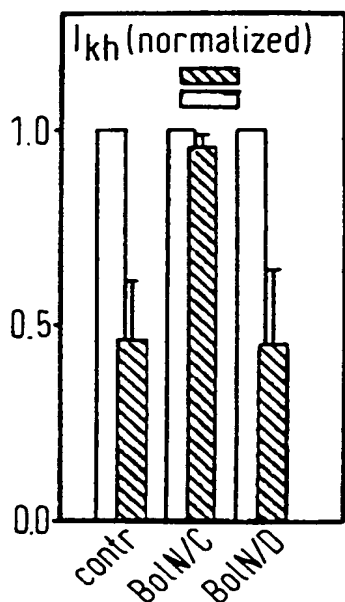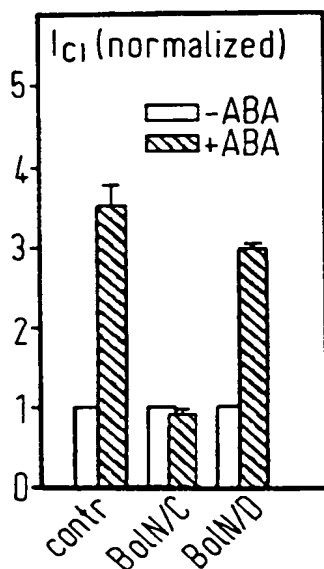
FIG. 40

FIG. 41

FIG. 42

A

Contr BotN/C BotN/C BotN/D
+ATP +ATP -ATP +ATP

B

C
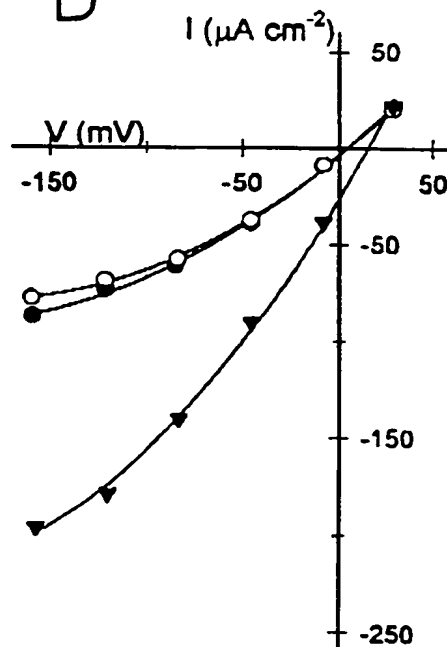
I$_{Cl}$ (normalized)

5
4
3
2
1
0

-ABA
+ABA

contr   BotN/C   BotN/D

I$_{kh}$ (normalized)

1.0

0.5

0.0

contr   BotN/C   BotN/D

D

I (μA cm^{-2})

50

V (mV)

-150   -50   50

-50

-150

-250

FIG. 43

A

B

$I_{ksu1}(\mu Acm^{-2})$

-ABA

+ABA

150

100

50

0

$I_{kh}(\mu Acm^{-2})$

-50

-100

-150

0

-10

-20

-30

$I_{cl}(\mu ADM^{-2})$

Control

+Sp2

C

I ($\mu A\ cm^{-2}$)

250

150

50

V (mV)

-250   -150   -50   50

-50

-150